/ALENCE ELECTRONS

Name _____

. ɔnce electrons are the electrons in the outermost principal energy level. They are ɯys "s" or "s and p" electrons. Since the total number of electrons possible in s and p ɹblevels is eight, there can be no more than eight valence electrons.

ɨetermine the number of valence electrons in the atoms below.

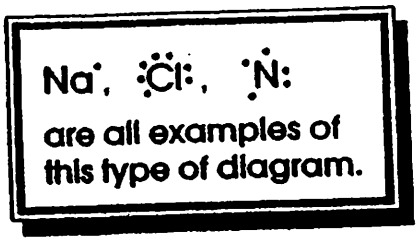
Example: carbon
Electron configuration is $1s^2$ $2s^2\ 2p^2$.
Carbon has 4 valence electrons.

1. fluorine _____
2. phosphorus _____
3. calcium _____
4. ...rogen _____
5. iron _____
6. argon _____
7. potassium _____
8. helium _____
9. magnesium _____
10. si ilfur _____
11. lithium _____
12. zinc _____
13. carbon _____
14. iodine _____
15. oxygen _____
16. barium _____
17. aluminum _____
18. hydrogen _____
19. xenon _____
20. copper _____

LEWIS DOT DIAGRAMS

Name _____

Lewis diagrams are a way to indicate the number of valence electrons around an atom



Draw Lewis dot diagrams of the following atoms.

1. calcium
2. potassium
3. argon
4. aluminum
5. bromine
6. carbon
7. hellium
8. oxygen
9. phosphorus
10. hydrogen